

## ABSTRACT

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This invention provides a method and apparatus for displaying an unscaled image frame on an LCD panel. The method and apparatus uses the same line buffers available to the digital signal processor DSP formerly used for scaling the displayed image up or down in size. No extra frame buffers are required by this invention since the frame rates of the source image and the LCD panel are the same. The image frame buffer is written to the LCD panel on every other panel vertical synchronization pulse. The vertical synchronization timing is shifted to the left or right in the time domain to center the image on the LCD panel.

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